

CLAIMS

What is claimed is:

5 1. In a wireless communication system in which remote subscriber units are located in cells, and at least two cells are located adjacent one another, each cell having a base station unit that coordinates communication with remote units located within its respective cell, a method comprising the steps of:

10 in an operating base station, determining the existence of communications occurring in adjacent cells; and

15 coordinating transmission of high interference communications associated with a subscriber unit in the cell associated with the operating base station with transmission of low interference communications associated with a subscriber unit in at least one of the adjacent cells.

15 2. A method as in claim 1 wherein each base station determines an expected time of low interference of communication by an adjacent base station and schedules its own high interference transmissions for such times.

20 3. A method as in claim 2 wherein the operating base station receives a report of an expected time of low interference transmissions from an adjacent base station.

25 4. A method as in claim 2 wherein the operating base station receives a report of service status message from an adjacent base station, the report relayed from a subscriber unit located in the cell served by the serving base station.

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5. A method as in claim 1 wherein transmission scheduling is accomplished by assigning time slots to specific subscriber units, additionally comprising the step of:
coordinating allocation of a time slot to a high interference communication in one base station with the allocation of a time slot for a low interference communication in an adjacent base station.

6. A method as in claim 1 wherein the communications coordinated are reverse link signals traveling from the subscriber units towards the base stations.

7. A method as in claim 1 wherein the coordinated communications are forward link signals traveling from the base stations towards the subscriber units.

8. A method as in claim 1 wherein the operating base station receives a report of an expected time of high and low interference communications in an adjacent base station.

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